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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/363,121	07/28/1999	BONG-WOO LEE	35399/DBP/Y3	7750
	590 12/31/2001 ARKER & HALE LLP		EXAM	INER
P O BOX 7068			HAYNES, MACK NELSON	
			ART UNIT	PAPER NUMBER
			2879	

DATE MAILED: 12/31/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

			I Applicant(a)			
		Application No.	Applicant(s)			
		09/363,121	LEE, BONG-WOO2			
	Office Action Summary	Examiner	Art Unit			
		Mack N. Haynes	2879			
Period fo						
THE M - Exten - If the - If NO - Failur - Any fr	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. Isions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON	imely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
1)🖾	Responsive to communication(s) filed on 01	<u>October 2001</u> .				
2a) ☐	This action is FINAL. 2b)⊠ Th	nis action is non-final.				
3)□	— with the ments is					
Dispositi	on of Claims					
	Claim(s) 1 and 2 is/are pending in the applica					
	4a) Of the above claim(s) is/are withdra	wn from consideration.				
5) 🗌	Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.					
7)	7) Claim(s) is/are objected to.					
8) 🗌	Claim(s) are subject to restriction and/o	or election requirement.				
Applicati	ion Papers					
	The specification is objected to by the Examine					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
	Applicant may not request that any objection to the	ne drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on	_ is: a)□ approved b)□ disapp	roved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority	under 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)	⊠ All b) Some * c) None of:					
	1. Certified copies of the priority documen					
	2. Certified copies of the priority documen	its have been received in Applica	ation No			
*	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14)	Acknowledgment is made of a claim for domes	tic priority under 35 U.S.C. § 119	9(e) (to a provisional application).			
,	a) The translation of the foreign language polyacknowledgment is made of a claim for domes	rovisional application has been r	eceived.			
Attachme						
1) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)			

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Response to Amendment

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsuneta et al. (3,806,750) in view of Jang (5,366,758) and Kim (5,998,920).

With regards to claims 1-2, Figs. 1 and 3 as well as col. 2, line 23-col. 4, line 10 of Tsuneta et al. disclose a CRT that comprises the following: a panel (14 of Figs. 1 and 3) having a phosphor screen (15 of Fig. 3); a cylindrical neck (12 of Fig. 1) having an electron gun assembly (17 of Fig. 3) disposed therein; a funnel (13 of Fig. 1) that is formed between the panel and neck, and having a rectangular cone portion contiguous to the neck; and an inherent anode button.

Yet, Tsuneta et al. does not specifically discuss the concept of having an inner graphite layer that is disposed on an inner surface of the funnel to form a path for transmission of the voltage, wherein the inner graphite layer satisfies the following condition: 0.9 < Td / Th < 1.36 (for claim 1) or 0.9 < Td / Tv < 1.36 (for claim 2), where

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Td is an approximate thickness of the inner graphite layer on each inside corner of the cone portion, Th is an approximate thickness of the inner graphite layer disposed on inside horizontal walls of the cone portion, and Tv is an approximate thickness of the inner graphite layer disposed on inside vertical walls of the cone portion.

However, col. 1, lines 8-37 and col. 3, lines 1-6 of Jang discloses a CRT having a funnel with a graphite coating that is covered uniformly (wherein, the thickness ratios would be equal to "1", which is within the range claimed by the applicants) over the inner surface of the funnel for the purpose of providing the CRT with an inner conductive film between the screen portion and the electron gun; thus, enabling a high voltage to be applied through the conductive film in order to accelerate the electron beams to the screen from the electron gun.

More over, col. 2, lines 38-53 of Kim teaches that it would be desirable to have a graphite coating spread uniformly over the inner surface of a CRT for the purpose of insuring that the high voltage flows uniformly across the inside surface of the funnel and prevent any unwanted internal discharging.

Thus, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to uniformly (wherein, the thickness of the coating at the corners is equal to the thickness of the coating on the vertical and horizontal walls) coat the inner surface of the funnel of Tsuneta et al., which includes the corners as well as vertical and horizontal walls for the purpose of providing the CRT of Tsuneta et al. with an inner conductive film from the electron gun to the screen portion which enables a

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high voltage to be applied uniformly across the funnel and accelerates the electron beams from the electron gun to the screen as taught by Jang and Kim.

Response to Arguments

Applicant's arguments with respect to claims 1-2 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mack N. Haynes whose telephone number is (703) 308-5460. The examiner can normally be reached on Mon-Fri., 9:00a.m.-5:00p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on (703) 305-4794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Mack N. Haynes

Examiner

Art Unit 2879

December 17, 2001

Vip Patel

Primary Examiner
Art Unit 2879